



Job description

Researcher "Chargé.e de recherche de classe normale du développement durable (CRCN)"

ENTPE – Graduate School of Civil, Environmental and Urban Engineering

LAET – Transport, Urban Planning and Economics Laboratory

Job title:	Researcher in the analysis of daily mobility in the Cities of the South
Establishment:	ENTPE, http://www.entpe.fr/
Discipline(s):	Spatial and urban planning or Geography
Speciality:	Transport, mobility
Research organisation:	Laboratoire Aménagement Économie Transports (Transport, Urban Planning and Economics Laboratory) – ENTPE http://www.laet.science
Location:	ENTPE (Graduate School of Civil, Environmental and Urban Engineering) – rue Maurice Audin, 69518 Vaulx-en-Velin Cedex - France
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The candidate's application will be expected to propose a scientific project that has links with the host research unit and to this end it is strongly recommended to contact the designated persons.

Job content

Research assignment

The LAET's scientific project for the period 2020-25 includes, among its priorities for the development of its expertise, the preservation and strengthening of "the unit's ability to address the issues of daily mobility in different contexts, particularly in the cities of the South", by implementing quantitative approaches and combining them with qualitative work. The research post detailed in this job description will help to achieve this goal. It involves implementing a personal scientific project that the candidate will have attached to his/her application and put before the recruitment panel.

The scientific project proposed by the candidate, as well as the presentation of his or her profile, should highlight how he or she intends to contribute to the attainment of this goal. This contribution will be presented from a thematic point of view, in terms of theoretical framing and with a view to the deployment of varied and appropriate methodologies, in particular quantitative ones. The researcher will also make sure to link his or her project with the concerns of the Ministry of the Ecological and Solidary Transition, as well as with those of the ENTPE and its partnerships and alliances, in particular those within Université de Lyon.

The candidate's research project will fall within the discipline of spatial and urban planning, or geography. It will employ statistical analysis methodologies which will be applied to understanding mobility practices and their determinants. It may include the production of new quantitative data and the secondary analysis of relevant datasets. The proposed project may also combine these approaches with qualitative approaches, in the context of combined or comparative analysis. The candidate's research project will highlight the scientific obstacles that it aims to overcome and its potential to achieve methodological or theoretical innovation, stressing the scientific value of investigating mobility through a study of areas in the South.

The candidate's scientific project may focus on different regions (Africa, Latin America, South-East Asia), but specialization in cities in sub-Saharan Africa will be appreciated. The project may also incorporate a comparison between different parts of the South or between different parts of the North and of the South, through discussions on the international circulation of models, concepts or innovations in the field of mobility or urban management.

The candidate's scientific project will primarily aim to understand mobility behaviours and their social and spatial determinants. It will consider how these behaviours are affected by socio-spatial dynamics and changes in the urban offer (transport, employment and facilities) and will be able to relate them to other forms of mobility (residential in particular) that are at work in the cities of the South. In return, the analysis of spatial mobility must provide an understanding of current urban changes (spatial inequalities, social fragmentation of urban spaces, etc.). These will be analysed in relation to the interventions of public and private stakeholders (businesses, associations, inhabitants) in the context of planning and transport in the cities in question.

The researcher will participate in various research projects that are under way in the laboratory. This applies not only to their conduct, but also to their design and subsequent promotion. These projects will involve partnerships with other local, national or international research bodies, both within and outside the academic world. The successful candidate's research will be conducted, in part, in collaboration with other members of the team. He or she will participate actively in the collective scientific life within at least one of the LAET's main areas of research, will be a driving force in implementing the laboratory's strategies, and will be actively involved in the laboratory's research projects. As part of a multidisciplinary laboratory within an engineering school, the researcher will also have to demonstrate a good capacity to work with researchers from outside their discipline.

The researcher will endeavour to publish his or her work in books and international peer-reviewed journals that respect the canons of their discipline. They will also endeavour to participate in scientific networks that are relevant to their discipline or the theme on which they are working, in accordance with the laboratory's outreach policy. They will help develop the laboratory's own resources.

The researcher will be involved in collective discussion initiatives on the policies and operation of both the laboratory and the ENTPE. They will contribute to the involvement of the laboratory and the ENTPE in the bodies and initiatives that shape the Lyon/St-Etienne university site, in the Scientific and Technical Network of the supervisory Ministry and in the international scientific networks in which their activities take place. Finally, he or she may become involved in mediation initiatives between the sciences and society.

Teaching role

The researcher will take part in teaching at the ENTPE and be actively involved in the various training courses in which the laboratory is involved (initial training for engineers and jointly awarded Master's degrees). The ENTPE's teaching approach is structured around students' acquisition of a set of skills. Two of these skills relate to areas covered by this job description. The most important focuses on the ability to "Model complex phenomena and systems for the benefit of territories" and the other is the ability to "Understand the challenges facing territories". Participation in training activities takes various forms: one-to-one teaching, monitoring and supervising students, managing tuition and, more broadly, instructional design. The researcher will apply his or her skills in order to update both the content of courses and teaching methods at the ENTPE. Through their collaboration networks, they will help to facilitate the professional integration of students in the field of transport and mobility.

Desired profile

- Candidates should hold of a doctorate or an equivalent qualification, preferably in spatial planning, urban planning or geography.
- Candidates who hold a doctorate in another discipline (economics for example), must be able to show they have a firm grounding in spatial planning, urban planning and geography or have certification from the Spatial and urban planning Section (section 24), or the Geography Section (section 23) of the Conseil National des Universités; candidates who have studied abroad must be able to demonstrate that they have equivalent recognition;
- Demonstrate their competence in the analysis of quantitative data. Additional competence in the conduct of questionnaire-based surveys will be appreciated, as will experience in the production and analysis of qualitative data;
- Possess a good knowledge of the scientific domain of mobility, their discipline and related disciplines;
- Demonstrate an interest or an involvement in fieldwork abroad, specifically in the cities of the South, as well as experience of working internationally;
- Demonstrate the ability to work as part of a team and in a multidisciplinary environment;
- Present proof of recognized scientific publications;
- Demonstrate experience and interest in initial and/or continuing education;
- Fluency in written and spoken English is essential.

Key words

Daily mobility, statistical methods, analysis of travel behaviours, spatial practices, transport, urban dynamics, planning, cities of the South, methodological triangulation.

The Laboratory's Institutional Setting

The LAET, Laboratoire Aménagement Économie Transports (Transport, Urban Planning and Economics Laboratory), is a jointly-managed research unit (UMR 5593) run by the CNRS, Université Lumière Lyon 2 and the ENTPE Graduate School of Civil, Environmental and Urban Engineering. This research unit is involved in two main disciplines, economics and urban planning. The LAET's main affiliation is with the National Committee for Scientific Research (CoNRS) Section 39 "Spaces, territories and societies" and its secondary affiliation is with Section 37 "Economy and management". Some of the unit's researchers have a background in other disciplines and add a cross-disciplinary dimension that adds to the laboratory's expertise. The LAET is also characterised by its research topics: transport and mobility on the one hand, space and territories on the other.

Its work aims to: observe, analyse and model the spatial mobility of people and goods, as well as the location of households and activities; evaluate public policies on transport and spatial planning; and finally, inform public decision-making.

In its field of expertise, the LAET is closely involved in the development of the Université de Lyon. It is a member of the "Social Sciences" and "Law, Economics, Management" Academic Colleges, the MAELYSE Economics Research Federation, the Intelligences of Urban World Laboratory of Excellence (LabEx IMU), the Lyon Urban School (Institut Convergence) and the site's cross-cutting Transport-Mobility programme. It also maintains a strong sectoral presence through its research partnerships with a large number of mobility stakeholders and its involvement in the CARA competitiveness cluster.

Finally, the LAET collectively provides ENTPE with training, mainly in the form of initial engineering training within the Transport Department, jointly-awarded "mastère's" degrees, master's degrees and doctorates. This role includes one-to-one teaching, participating in instructional design (the design of teaching modules and helping to run training courses), participating in the supervision of students and in the dissertation and thesis defences required of them.

The ENTPE's Institutional Setting

Founded in 1954, the ENTPE is a Public Establishment of a Scientific, Cultural and Professional Nature (EPSCP) of the "School outside universities" type, which mainly trains engineers and PhDs in the field of sustainable regional planning. Its historical ties with its supervisory body, the Ministry for an Ecological and Solidary Transition (MTES), provide it with special relations with the ministry's Scientific and Technical Network (RST). Research and teaching revolve around the issue of sustainable urban planning through four themes:

- i. Buildings and the living environment;
- ii. Cities, territories and the environment;
- iii. Mobility and transport;
- iv. Engineering structures and infrastructure.

The ENTPE comprises 6 laboratories, including 4 research units that are jointly-managed with the CNRS and other schools and universities on the Lyon/St-Etienne site, a research unit that is jointly managed with Université Gustave Eiffel (formerly IFSTTAR) and one research unit of its own. On its site, 80 researchers are employed by or work at the School, 60 of them full-time. On average, work is in progress on 100 PhD theses. In total, the research units, at all the sites, have a permanent staff of 400, with as many non-permanent staff and PhD students.

The ENTPE is, in particular, strongly committed to research in the field of transport and mobility through two research units, the LICIT which covers engineering aspects and the LAET which deals with the Human and Social Sciences.

The ENTPE works in fields with high stakes, particularly in relation to State and local and regional government reforms (which especially affect the future employment of students who become civil servants) and with current and future transitions in the spheres of energy, the environment and sustainable development. At the same time, the ENTPE is integrated within the higher education and research landscape through the many structures that have recently been created, consolidated or planned (Université de Lyon, Lyon IDEX, research unit jointly managed by the CNRS and Université Gustave Eiffel, LabEx, Institut Convergence, EUR, ANR programmes, etc.), and within which it is evaluated (by HCERES in particular).